


TEMPO

STRUCTURED PRODUCTS

AN ALPHA REAL CAPITAL GROUP COMPANY

- TICS -
TEMPO ISSUER & COUNTERPARTY SCORECARDS
- MONTHLY MOVEMENT: JULY 2019 -

FOR PROFESSIONAL ADVISER USE ONLY
- NOT FOR USE WITH CLIENTS -

KEY ALPHA STATISTICS:

(as at 31 Mar 18)

£2.4bn+

AUM and capital
commitments

100+

Professional team

10

Platforms

5

International
offices

4

Core business
areas

Alpha Real Capital LLP is an international co-investing fund management group.

Established in 2005, and headquartered in London, Alpha comprises an international network of offices in the UK, Europe and Asia. A 100+ strong professional team, combining experience and expertise with research, analysis and market knowledge, operates through 10 platforms, across diversified investment markets, offering listed and unlisted property vehicles, open and closed-ended property vehicles, and UK and international funds, products and wealth management services. Alpha engages with institutional investors, family offices, wealth managers and professional advisers / IFAs, as well as UHNW, HNW and private investors.

TIME Investments is the authorised wealth management and investment services arm of Alpha. TIME specialises in ground rent and other 'long income' property funds (having acquired the real estate asset management business of Close Brothers Group in 2011), Inheritance Tax Services, including Business Relief (BR), and investment services, including Enterprise Investment Schemes (EIS).

Tempo Structured Products is a new Alpha platform, with four areas of focus: i) Retail: focusing on straightforward, lower risk structured products, for distribution through TIME Investments to UK Professional Advisers (IFAs and wealth managers); ii) Institutions / Pension funds: working with institutions / pension fund consultants, to develop 'smart structured products' (fusing structured, passive and smart beta strategies together); iii) HNW / UHNW / Family Offices: working with Alpha contacts to design bespoke structured product solutions for Family Offices, UHNW and HNW Individuals; iv) Strategic Alliances: partnering with other institutions, offering our expertise and issuer relationships as a specialist structured products unit, for the benefit of their clients and customers.

- **Every month, we monitor the monthly movement within TICS:**
 - Category Scorecards
 - Amalgamated Scorecard
- **We identify and highlight movement up and down the rankings:**
 - and we draw attention to any issuer / counterparty that moves up or down in any Category Scorecard or the Amalgamated Scorecard by more than 5 places

- **Amalgamated:**

- Overall, the amalgamated scores for July are slightly lower compared to June across the board.
- 2 banks improved by more than 5 places (Bank of China and Prudential) and 3 banks worsened by 5 places or more (Sumitomo, Wells Fargo and BONYM).

- **Credit rating:**

- Deutsche Bank was downgraded by Fitch over the month, to BBB, and assigned an ‘evolving’ outlook (meaning that currently, the fundamental trend for the bank has strong, conflicting elements of both positive and negative).
- There were no other rating changes over the month, and no banks moved by more than 5 places in the scorecard.

- **CDS:**

- Overall, the average CDS score for July is lower compared to June, meaning there has been a general tightening in CDS rates. In fact, 13 banks are currently trading at their 1-year low for the 5-year CDS rate.
- Credit Agricole, Danske Bank, Commerzbank and Credit Suisse all moved up by more than 5 places, due to CDS rates tightening.
- BONYM, RBC, Santander, Barclays, Nomura and Bank of Ireland all moved down by more than 5 places.

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- **Fundamentals – Balance sheet:**
 - No banks moved by more than 5 places.
- **Fundamentals – Market indicators:**
 - Aviva improved by 5 places. Please see following slides for more information.
- **Systemic Importance:**
 - No banks moved by more than 5 places.

TICS monthly movement: July 2019 ...

TICS CREDIT RATING CATEGORY				
ISSUER / COUNTERPARTY	MOVEMENT + / -	PREVIOUS RANK	NEW RANK	COMMENT
N/A				

TICS monthly movement: July 2019 ...

TICS CDS CATEGORY				
ISSUER / COUNTERPARTY	MOVEMENT + / -	PREVIOUS RANK	NEW RANK	COMMENT
Credit Agricole	+10	12	2	Both the 5Y and 1Y CDS reduced (i.e. improved), the 5Y CDS is at the 1-year low, and CDS volatility decreased (i.e. improved).
BONYM	-6	4	10	No change – movement relative to other banks.
RBC	-13	11	24	No change – movement relative to other banks.
Santander	-9	10	19	CDS volatility increased (i.e. worsened).
Danske Bank	+11	23	12	Both the 5Y and 1Y CDS reduced (i.e. improved), and the 5-year CDS moved closer to the 1-year low.
Barclays	-9	16	25	No change – movement relative to other banks.
Commerzbank	+7	28	21	Both the 5Y and 1Y CDS reduced (i.e. improved), and the 5-year CDS is at the 1-year low.
Credit Suisse	+14	25	11	Both the 5Y and 1Y CDS reduced (i.e. improved), and the 5-year CDS is at the 1-year low.
Nomura	-14	9	23	No change – movement relative to other banks.
Bank of Ireland	-11	20	31	No change – movement relative to other banks.

TICS monthly movement: July 2019...

TICS FUNDAMENTALS (BALANCE SHEET) CATEGORY				
ISSUER / COUNTERPARTY	MOVEMENT + / -	PREVIOUS RANK	NEW RANK	COMMENT
N/A				

TICS monthly movement: July 2019 ...

TICS FUNDAMENTALS (MARKET INDICATORS) CATEGORY				
ISSUER / COUNTERPARTY	MOVEMENT + / -	PREVIOUS RANK	NEW RANK	COMMENT
Aviva	+5	28	23	Market capitalisation increased, share price volatility decreased (i.e. improved) and the share price moved closer to the 1-year high.

TICS monthly movement: July 2019 ...

TICS SYSTEMIC IMPORTANCE CATEGORY				
ISSUER / COUNTERPARTY	MOVEMENT + / -	PREVIOUS RANK	NEW RANK	COMMENT
N/A				

TICS Amalgamated: July 2019 monthly movement ...

	Bank / Institution	Region	Sovereign	July 2019			June 2019			May 2019		
				Score	Rank	+/- Rank Change	Score	Rank	+/- Rank Change	Score	Rank	+/- Rank Change
1	HSBC	UK	UK	323.2	1	0	323.2	1	0	446.4	1	0
2	Credit Agricole	Europe	France	413.7	2	4	413.4	6	1	468.8	10	(1)
3	UBS AG	Europe	Switzerland	424.6	3	2	424.6	5	(3)	449.5	5	1
4	JP Morgan	North America	USA	424.9	4	4	424.9	8	(5)	448.0	4	1
5	CCB	Asia	China	430.9	5	(3)	430.9	2	10	448.3	8	4
6	BNP Paribas	Europe	France	430.9	6	3	430.7	9	(3)	447.8	14	(1)
7	Bank of China	Asia	China	434.7	7	5	434.7	12	(8)	473.3	2	0
8	ICBC	Asia	China	438.2	8	(5)	438.2	3	2	474.1	3	0
9	Sumitomo	Asia	Japan	441.5	9	(5)	441.2	4	10	495.4	15	1
10	Wells Fargo	North America	USA	444.2	10	3	444.2	13	(5)	486.1	11	(3)
11	Nordea	Europe	Sweden	444.3	11	4	529.8	15	0	510.0	12	(2)
12	Mitsubishi	Asia	Japan	445.0	12	(2)	445.0	10	3	494.3	9	(2)
13	Bank of America	North America	USA	445.8	13	1	445.8	14	(4)	505.9	13	1
14	BONYM	North America	USA	449.8	14	(7)	449.8	7	4	527.8	6	(2)
15	RBC	North America	Canada	450.1	15	(4)	450.1	11	(2)	515.5	7	4
16	Mizuho	Asia	Japan	474.8	16	0	474.8	16	0	516.1	16	1
17	State Street	North America	USA	476.5	17	0	476.5	17	0	519.7	17	(2)
18	ABC	Asia	China	478.9	18	0	478.9	18	2	535.8	18	2
19	Societe Generale	Europe	France	483.6	19	0	483.6	19	(1)	528.4	20	2
20	BPCE_Natixis	Europe	France	490.3	20	0	490.3	20	2	558.7	19	(1)
21	Citi	North America	USA	492.0	21	0	492.0	21	(2)	560.5	21	(2)
22	Standard Chartered	UK	UK	495.4	22	0	495.4	22	(1)	565.8	22	(1)
23	Prudential	UK	UK	502.4	23	5	502.4	28	(2)	567.5	27	(3)
24	Morgan Stanley	North America	USA	515.3	24	1	515.3	25	(2)	558.8	23	2
25	Santander	Europe	Spain	517.6	25	(1)	522.6	24	0	584.2	24	(1)
26	MSIP	UK	UK	519.7	26	(3)	519.7	23	2	592.2	25	2
27	Goldman Sachs	North America	USA	523.0	27	0	523.0	27	1	618.1	28	2
28	Lloyds	UK	UK	524.6	28	(2)	524.6	26	1	614.4	26	0
29	ING Bank	Europe	Netherlands	540.7	29	0	540.7	29	0	617.3	32	(4)
30	Danske Bank	Europe	Denmark	542.3	30	1	542.3	31	0	655.8	30	3
31	Aviva	UK	UK	557.3	31	4	557.3	35	(3)	707.5	33	(4)
32	Barclays	UK	UK	561.9	32	(2)	561.9	30	3	0.0	31	1
33	Commerzbank	Europe	Germany	570.5	33	0	570.5	33	(3)	502.9	35	(1)
34	Credit Suisse	Europe	Switzerland	570.7	34	0	570.7	34	0	0.0	29	2
35	Nomura	Asia	Japan	601.2	35	(3)	589.2	32	3	0.0	34	1
36	RBS	UK	UK	608.9	36	1	608.9	37	1	Rank	37	0
37	Investec Bank plc	UK	UK	612.7	37	(1)	612.7	36	0	3.0	36	0
38	Deutsche Bank	Europe	Germany	634.8	38	0	634.8	38	(1)	16.0	38	0
39	Unicredit Group	Europe	Italy	671.5	39	0	671.5	39	0	17.0	39	0
40	Bank of Ireland	Europe	Ireland	709.0	40	0	709.0	40	0	1.0	40	0

TICS Credit Ratings: July 2019 monthly movement ...

	Bank / Institution	Region	Sovereign	July 2019			June 2019			May 2019		
				Credit Rating Score	Credit Rating Rank	+/- Rank Change	Credit Rating Score	Credit Rating Rank	+/- Rank Change	Credit Rating Score	Credit Rating Rank	+/- Rank Change
1	HSBC	UK	UK	4.00	2	0	4.00	2	0	4.00	2	0
2	Credit Agricole	Europe	France	4.92	5	0	4.92	5	0	4.92	5	(1)
3	UBS AG	Europe	Switzerland	5.33	10	0	5.33	10	0	5.33	10	0
4	JP Morgan	North America	USA	5.67	15	0	5.67	15	0	5.67	15	0
5	CCB	Asia	China	5.67	13	0	5.67	13	0	5.67	13	0
6	BNP Paribas	Europe	France	4.67	4	0	4.67	4	0	4.67	4	1
7	Bank of China	Asia	China	5.67	14	0	5.67	14	0	5.67	14	0
8	ICBC	Asia	China	5.67	12	0	5.67	12	0	5.67	12	0
9	Sumitomo	Asia	Japan	5.92	18	0	5.92	18	0	5.92	18	0
10	Wells Fargo	North America	USA	6.17	22	0	6.17	22	0	6.17	22	0
11	Nordea	Europe	Sweden	4.00	1	0	4.00	1	0	4.00	1	0
12	Mitsubishi	Asia	Japan	5.92	17	0	5.92	17	0	5.92	17	0
13	Bank of America	North America	USA	6.00	21	0	6.00	21	0	6.00	21	0
14	BONYM	North America	USA	5.00	6	0	5.00	6	0	5.00	6	0
15	RBC	North America	Canada	4.33	3	0	4.33	3	0	4.33	3	0
16	Mizuho	Asia	Japan	6.25	24	0	6.25	24	0	6.25	24	0
17	State Street	North America	USA	5.00	7	0	5.00	7	0	5.00	7	0
18	ABC	Asia	China	5.67	16	0	5.67	16	0	5.67	16	0
19	Societe Generale	Europe	France	5.58	11	0	5.58	11	0	5.58	11	0
20	BPCE_Natixis	Europe	France	5.00	8	0	5.00	8	0	5.00	8	0
21	Citi	North America	USA	7.00	33	0	7.00	33	0	7.00	33	0
22	Standard Chartered	UK	UK	6.67	27	0	6.67	27	0	6.67	27	0
23	Prudential	UK	UK	6.00	20	0	6.00	20	0	6.00	20	0
24	Morgan Stanley	North America	USA	7.00	31	0	7.00	31	0	7.00	31	0
25	Santander	Europe	Spain	6.33	25	0	6.33	25	0	6.33	25	0
26	MSIP	UK	UK	5.00	9	0	5.00	9	0	5.00	9	0
27	Goldman Sachs	North America	USA	7.00	32	0	7.00	32	0	7.00	32	0
28	Lloyds	UK	UK	6.67	28	0	6.67	28	0	6.67	28	0
29	ING Bank	Europe	Netherlands	6.67	29	0	6.67	29	0	6.67	29	0
30	Danske Bank	Europe	Denmark	6.25	23	0	6.25	23	0	6.25	23	0
31	Aviva	UK	UK	5.92	19	0	5.92	19	0	5.92	19	0
32	Barclays	UK	UK	8.25	38	0	8.25	38	0	8.33	38	0
33	Commerzbank	Europe	Germany	6.75	30	0	6.75	30	0	6.75	30	0
34	Credit Suisse	Europe	Switzerland	7.92	35	1	7.92	36	0	7.92	36	0
35	Nomura	Asia	Japan	7.42	34	0	7.42	34	0	7.42	34	0
36	RBS	UK	UK	7.92	36	1	7.92	37	0	8.17	37	0
37	Investec Bank plc	UK	UK	6.50	26	0	6.50	26	0	6.50	26	0
38	Deutsche Bank	Europe	Germany	8.08	37	(2)	8.08	35	0	7.83	35	0
39	Unicredit Group	Europe	Italy	8.83	39	0	8.83	39	0	8.83	39	0
40	Bank of Ireland	Europe	Ireland	9.50	40	0	9.50	40	0	9.50	40	0

TICS CDS: July 2019 monthly movement ...

	Bank / Institution	Region	Sovereign	July 2019			June 2019			May 2019		
				CDS Score	CDS Rank	+/- Rank Change	CDS Score	CDS Rank	+/- Rank Change	CDS Score	CDS Rank	+/- Rank Change
1	HSBC	UK	UK	1.65	3	3	1.65	6	5	2.85	11	(6)
2	Credit Agricole	Europe	France	1.65	2	10	1.65	12	(6)	2.55	6	1
3	UBS AG	Europe	Switzerland	1.50	1	4	1.50	5	(4)	1.65	1	3
4	JP Morgan	North America	USA	2.95	13	2	2.95	15	(1)	3.20	14	1
5	CCB	Asia	China	N/A	36	0	N/A	36	0	N/A	36	0
6	BNP Paribas	Europe	France	2.25	7	0	2.25	7	0	2.70	7	9
7	Bank of China	Asia	China	3.40	20	1	3.40	21	(6)	3.25	15	(7)
8	ICBC	Asia	China	N/A	37	0	N/A	37	0	N/A	37	0
9	Sumitomo	Asia	Japan	2.10	5	(3)	2.10	2	1	2.10	3	3
10	Wells Fargo	North America	USA	2.95	14	3	2.95	17	(5)	3.10	12	0
11	Nordea	Europe	Sweden	2.30	9	4	8.00	13	9	3.90	22	(9)
12	Mitsubishi	Asia	Japan	1.90	4	(3)	1.90	1	1	1.90	2	(1)
13	Bank of America	North America	USA	3.05	16	2	3.05	18	(5)	3.20	13	1
14	BONYM	North America	USA	2.35	10	(6)	2.35	4	1	2.35	5	(3)
15	RBC	North America	Canada	3.60	24	(13)	3.60	11	6	3.45	17	(8)
16	Mizuho	Asia	Japan	2.20	6	(3)	2.20	3	1	2.20	4	(1)
17	State Street	North America	USA	N/A	40	0	N/A	40	0	N/A	40	0
18	ABC	Asia	China	6.40	34	(2)	6.40	32	1	6.40	33	(1)
19	Societe Generale	Europe	France	2.25	8	0	2.25	8	2	2.85	10	0
20	BPCE_Natixis	Europe	France	4.35	30	(1)	4.35	29	2	5.40	31	(12)
21	Citi	North America	USA	3.80	26	1	3.80	27	(4)	3.95	23	(5)
22	Standard Chartered	UK	UK	3.10	18	4	3.10	22	(1)	3.80	21	3
23	Prudential	UK	UK	3.00	15	(1)	3.00	14	(6)	2.85	8	9
24	Morgan Stanley	North America	USA	3.80	27	(1)	3.80	26	(2)	3.95	24	2
25	Santander	Europe	Spain	3.25	19	(9)	3.25	10	(1)	2.85	9	11
26	MSIP	UK	UK	N/A	39	0	N/A	39	0	N/A	39	0
27	Goldman Sachs	North America	USA	3.95	29	1	3.95	30	0	5.00	30	(1)
28	Lloyds	UK	UK	3.05	17	2	3.05	19	(1)	3.50	18	7
29	ING Bank	Europe	Netherlands	3.50	22	2	3.50	24	5	4.80	29	2
30	Danske Bank	Europe	Denmark	2.85	12	11	2.85	23	2	4.05	25	2
31	Aviva	UK	UK	3.90	28	3	3.90	31	(4)	4.20	27	1
32	Barclays	UK	UK	3.65	25	(9)	3.65	16	4	3.80	20	1
33	Commerzbank	Europe	Germany	3.45	21	7	3.45	28	(2)	4.20	26	4
34	Credit Suisse	Europe	Switzerland	2.75	11	14	2.75	25	(9)	3.35	16	6
35	Nomura	Asia	Japan	3.50	23	(14)	3.50	9	10	3.50	19	(8)
36	RBS	UK	UK	5.65	32	1	5.65	33	(1)	5.60	32	1
37	Investec Bank plc	UK	UK	N/A	38	0	N/A	38	0	N/A	38	0
38	Deutsche Bank	Europe	Germany	7.20	35	0	7.20	35	0	7.50	35	0
39	Unicredit Group	Europe	Italy	5.75	33	1	5.75	34	0	6.60	34	0
40	Bank of Ireland	Europe	Ireland	4.60	31	(11)	4.60	20	8	4.60	28	(5)

TICS Fundamentals (Balance Sheet): July 2019 monthly movement ...

	Bank / Institution	Region	Sovereign	July 2019			June 2019			May 2019		
				Balance Sheet Score	Balance Sheet Rank	+/- Rank Change	Balance Sheet Score	Balance Sheet Rank	+/- Rank Change	Balance Sheet Score	Balance Sheet Rank	+/- Rank Change
1	HSBC	UK	UK	3.25	1	0	3.25	1	0	3.25	1	0
2	Credit Agricole	Europe	France	3.95	14	(1)	3.95	13	12	4.50	25	1
3	UBS AG	Europe	Switzerland	3.95	17	(1)	3.95	16	1	3.95	17	2
4	JP Morgan	North America	USA	4.25	22	1	4.25	23	(1)	4.25	22	1
5	CCB	Asia	China	3.40	3	0	3.40	3	11	3.95	14	0
6	BNP Paribas	Europe	France	4.80	30	1	4.80	31	(1)	4.85	30	1
7	Bank of China	Asia	China	4.05	18	1	4.05	19	(1)	4.05	18	(1)
8	ICBC	Asia	China	3.95	16	(1)	3.95	15	1	3.95	16	0
9	Sumitomo	Asia	Japan	3.35	2	0	3.35	2	10	3.90	12	0
10	Wells Fargo	North America	USA	3.85	10	1	3.85	11	(2)	3.85	9	1
11	Nordea	Europe	Sweden	5.00	35	1	5.00	36	(1)	5.00	35	(7)
12	Mitsubishi	Asia	Japan	3.75	8	1	3.75	9	(1)	3.80	8	1
13	Bank of America	North America	USA	4.20	20	(2)	4.20	18	2	4.20	20	1
14	BONYM	North America	USA	4.60	26	(2)	4.60	24	2	4.60	26	1
15	RBC	North America	Canada	5.70	38	0	5.70	38	0	5.70	38	0
16	Mizuho	Asia	Japan	3.90	12	0	3.90	12	(1)	3.90	11	0
17	State Street	North America	USA	3.95	15	(1)	3.95	14	5	4.10	19	(1)
18	ABC	Asia	China	3.90	13	4	3.90	17	7	4.45	24	1
19	Societe Generale	Europe	France	4.70	28	0	4.70	28	0	4.70	28	1
20	BPCE Natixis	Europe	France	4.65	27	0	4.65	27	6	4.90	33	0
21	Citi	North America	USA	3.70	7	(2)	3.70	5	1	3.70	6	1
22	Standard Chartered	UK	UK	3.55	4	0	3.55	4	(2)	3.55	2	1
23	Prudential	UK	UK	N/A	40	0	N/A	40	0	N/A	40	0
24	Morgan Stanley	North America	USA	3.55	5	1	3.55	6	(1)	3.70	5	3
25	Santander	Europe	Spain	5.00	36	1	5.00	37	0	5.15	37	(1)
26	MSIP	UK	UK	4.86	32	1	4.86	33	(1)	4.86	32	5
27	Goldman Sachs	North America	USA	3.85	11	(3)	3.85	8	2	3.85	10	14
28	Lloyds	UK	UK	4.20	21	1	4.20	22	(1)	4.20	21	1
29	ING Bank	Europe	Netherlands	4.90	33	(3)	4.90	30	4	4.90	34	0
30	Danske Bank	Europe	Denmark	4.85	31	1	4.85	32	(1)	4.85	31	1
31	Aviva	UK	UK	N/A	39	0	N/A	39	0	N/A	39	0
32	Barclays	UK	UK	3.65	6	1	3.65	7	(4)	3.65	3	2
33	Commerzbank	Europe	Germany	4.50	24	2	4.50	26	(11)	3.95	15	0
34	Credit Suisse	Europe	Switzerland	4.45	23	2	4.45	25	2	4.60	27	(25)
35	Nomura	Asia	Japan	4.55	25	(4)	4.15	21	2	4.30	23	(3)
36	RBS	UK	UK	3.80	9	1	3.80	10	(3)	3.80	7	(3)
37	Investec Bank plc	UK	UK	5.05	37	(3)	5.05	34	2	5.05	36	(1)
38	Deutsche Bank	Europe	Germany	4.10	19	1	4.10	20	(16)	3.70	4	2
39	Unicredit Group	Europe	Italy	4.90	34	1	4.90	35	(22)	3.90	13	0
40	Bank of Ireland	Europe	Ireland	4.75	29	0	4.75	29	0	4.75	29	1

TICS Fundamentals (Market Indicator): July 2019 monthly movement ...

	Bank / Institution	Region	Sovereign	July 2019			June 2019			May 2019		
				Market Ind Score	Market Ind Rank	+/- Rank Change	Market Ind Score	Market Ind Rank	+/- Rank Change	Market Ind Score	Market Ind Rank	+/- Rank Change
1	HSBC	UK	UK	2.95	9	(1)	2.95	8	0	2.95	8	0
2	Credit Agricole	Europe	France	5.70	22	2	5.70	24	0	5.70	24	0
3	UBS AG	Europe	Switzerland	5.35	20	3	5.35	23	(3)	5.40	20	(3)
4	JP Morgan	North America	USA	1.75	2	0	1.75	2	0	1.90	2	0
5	CCB	Asia	China	2.25	4	(1)	2.25	3	0	2.10	3	2
6	BNP Paribas	Europe	France	5.35	18	(2)	5.35	16	3	5.35	19	(1)
7	Bank of China	Asia	China	2.30	5	0	2.30	5	0	2.45	5	(2)
8	ICBC	Asia	China	1.45	1	0	1.45	1	0	1.45	1	0
9	Sumitomo	Asia	Japan	5.55	21	(1)	5.55	20	(4)	5.05	16	4
10	Wells Fargo	North America	USA	2.60	7	0	2.60	7	0	2.60	7	0
11	Nordea	Europe	Sweden	5.85	28	(2)	5.85	26	2	5.90	28	(3)
12	Mitsubishi	Asia	Japan	5.35	19	0	5.35	19	4	5.65	23	0
13	Bank of America	North America	USA	2.20	3	1	2.20	4	0	2.20	4	0
14	BONYM	North America	USA	5.75	24	(3)	5.75	21	0	5.60	21	0
15	RBC	North America	Canada	3.60	11	(2)	3.60	9	1	3.60	10	(1)
16	Mizuho	Asia	Japan	5.75	25	(3)	5.75	22	0	5.60	22	0
17	State Street	North America	USA	6.65	33	0	6.65	33	(4)	6.00	29	3
18	ABC	Asia	China	2.45	6	0	2.45	6	0	2.45	6	0
19	Societe Generale	Europe	France	6.85	35	0	6.85	35	(3)	6.20	32	3
20	BPCE_Natixis	Europe	France	6.85	34	0	6.85	34	0	6.50	34	(1)
21	Citi	North America	USA	3.35	10	0	3.35	10	(1)	3.35	9	1
22	Standard Chartered	UK	UK	5.75	26	1	5.75	27	(1)	5.75	26	2
23	Prudential	UK	UK	2.90	8	4	2.90	12	3	4.90	15	(2)
24	Morgan Stanley	North America	USA	5.20	15	0	5.20	15	(3)	4.55	12	2
25	Santander	Europe	Spain	4.70	13	0	5.20	13	0	4.70	13	(1)
26	MSIP	UK	UK	N/A	40	0	N/A	40	0	N/A	40	0
27	Goldman Sachs	North America	USA	5.05	14	3	5.05	17	(3)	4.75	14	5
28	Lloyds	UK	UK	4.60	12	(1)	4.60	11	0	4.30	11	0
29	ING Bank	Europe	Netherlands	5.85	27	(2)	5.85	25	0	5.70	25	1
30	Danske Bank	Europe	Denmark	6.20	30	1	6.20	31	0	6.20	31	(2)
31	Aviva	UK	UK	5.75	23	5	5.75	28	(1)	5.90	27	0
32	Barclays	UK	UK	5.25	16	(2)	5.25	14	4	5.25	18	(2)
33	Commerzbank	Europe	Germany	7.35	39	0	7.35	39	(3)	6.70	36	3
34	Credit Suisse	Europe	Switzerland	6.15	29	0	6.15	29	1	6.15	30	0
35	Nomura	Asia	Japan	7.00	37	(1)	7.00	36	1	6.85	37	(1)
36	RBS	UK	UK	5.25	17	1	5.25	18	(1)	5.25	17	(2)
37	Investec Bank plc	UK	UK	6.40	32	0	6.40	32	3	6.55	35	(1)
38	Deutsche Bank	Europe	Germany	6.85	36	2	6.85	38	0	6.85	38	0
39	Unicredit Group	Europe	Italy	6.30	31	(1)	6.30	30	3	6.45	33	(2)
40	Bank of Ireland	Europe	Ireland	7.15	38	(1)	7.15	37	2	7.00	39	(2)

TICS Systemic Importance: July 2019 monthly movement

	Bank / Institution	Region	Sovereign	July 2019			June 2019			May 2019		
				Systemic Imp Score	Systemic Imp Rank	+/- Rank Change	Systemic Imp Score	Systemic Imp Rank	+/- Rank Change	Systemic Imp Score	Systemic Imp Rank	+/- Rank Change
1	HSBC	UK	UK	2.29	3	0	2.29	3	0	2.29	3	0
2	Credit Agricole	Europe	France	3.35	17	(1)	3.30	16	0	3.25	16	0
3	UBS AG	Europe	Switzerland	3.35	16	1	3.35	17	0	3.35	17	0
4	JP Morgan	North America	USA	1.80	1	0	1.80	1	0	1.80	1	0
5	CCB	Asia	China	2.95	11	0	2.95	11	0	2.95	11	0
6	BNP Paribas	Europe	France	2.60	9	0	2.55	9	0	2.60	9	0
7	Bank of China	Asia	China	2.50	8	0	2.50	8	0	2.50	8	0
8	ICBC	Asia	China	2.50	7	0	2.50	7	0	2.50	7	0
9	Sumitomo	Asia	Japan	3.46	20	0	3.41	20	0	3.41	20	0
10	Wells Fargo	North America	USA	2.35	4	0	2.35	4	0	2.35	4	0
11	Nordea	Europe	Sweden	8.25	35	0	8.25	35	0	8.25	35	0
12	Mitsubishi	Asia	Japan	2.76	10	0	2.76	10	0	2.76	10	0
13	Bank of America	North America	USA	2.40	5	0	2.40	5	0	2.40	5	0
14	BONYM	North America	USA	3.80	26	0	3.80	26	0	3.80	26	0
15	RBC	North America	Canada	3.15	14	0	3.15	14	0	3.15	14	0
16	Mizuho	Asia	Japan	3.46	21	0	3.46	21	0	3.46	21	0
17	State Street	North America	USA	4.00	28	0	4.00	28	0	4.00	28	0
18	ABC	Asia	China	2.95	12	0	2.95	12	0	2.95	12	0
19	Societe Generale	Europe	France	3.40	19	0	3.40	19	0	3.40	19	0
20	BPCE_Natixis	Europe	France	3.40	18	0	3.40	18	0	3.40	18	0
21	Citi	North America	USA	2.10	2	0	2.10	2	0	2.10	2	0
22	Standard Chartered	UK	UK	3.64	24	0	3.64	24	0	3.64	24	0
23	Prudential	UK	UK	7.54	31	0	7.54	31	0	7.54	31	0
24	Morgan Stanley	North America	USA	3.95	27	0	3.95	27	0	3.95	27	0
25	Santander	Europe	Spain	3.71	25	0	3.71	25	0	3.71	25	0
26	MSIP	UK	UK	8.81	37	0	8.81	37	0	8.81	37	0
27	Goldman Sachs	North America	USA	3.55	22	0	3.55	22	0	3.55	22	0
28	Lloyds	UK	UK	8.04	32	0	8.04	32	0	8.04	32	0
29	ING Bank	Europe	Netherlands	3.20	15	0	3.20	15	0	3.20	15	0
30	Danske Bank	Europe	Denmark	8.40	36	0	8.40	36	0	8.45	36	0
31	Aviva	UK	UK	7.49	30	0	7.49	30	0	7.49	30	0
32	Barclays	UK	UK	3.04	13	0	3.04	13	0	3.04	13	0
33	Commerzbank	Europe	Germany	8.05	33	0	8.05	33	0	8.05	33	0
34	Credit Suisse	Europe	Switzerland	3.55	23	0	3.55	23	0	3.55	23	0
35	Nomura	Asia	Japan	9.11	39	0	9.11	39	0	9.11	39	0
36	RBS	UK	UK	8.19	34	0	8.19	34	0	8.19	34	0
37	Investec Bank plc	UK	UK	8.94	38	0	8.94	38	0	8.94	38	0
38	Deutsche Bank	Europe	Germany	2.40	6	0	2.40	6	0	2.40	6	0
39	Unicredit Group	Europe	Italy	4.39	29	0	4.39	29	0	4.39	29	0
40	Bank of Ireland	Europe	Ireland	9.20	40	0	9.20	40	0	9.20	40	0

- We developed our Scorecards for internal purposes: as part of our process of considering and selecting issuers and counterparties. We publish our Scorecards as part of our approach to providing transparency - and to support professional advisers in their research and due diligence responsibilities:
 - but it is important that professional advisers using them understand what they are and what they are not
- **WHAT THEY ARE:** the primary purpose of our scorecards is to compile multiple factors that potentially measure or indicate financial strength / credit risk, with a scoring system that provokes and supports more objective and detailed analysis, assessment, comparison, consideration and understanding of prospective issuers and counterparties
- **WHAT THEY ARE NOT:** the scoring system ranks the issuers and counterparties, but it is important that professional advisers understand that this is **NOT** their intended purpose:
 - *the purpose of our scorecards, including the rankings, and multiple data points, at an amalgamated, category and factor level, is to provoke and support **analysis**, **assessment** and **comparison** of the data, to aid more objective **consideration** and **understanding** of relative issuer / counterparty financial strength / credit risk*
- **It is also important that professional advisers understand that our Scorecards are not independent research or an investment recommendation:**
 - we do not provide any warranty regarding the data, methodology, scores or rankings: and we expressly exclude any liability for any judgement or interpretation based upon or influenced by our Scorecards
 - professional advisers should reach their own judgement of issuer / counterparty financial strength / credit risk

A : ANALYSIS

A : ASSESSMENT

C : COMPARISON

C : CONSIDERATION

U : *AND UNDERSTANDING*

- Our Scorecards are NOT about the rankings per se. All of the issuers / counterparties (with one or two exceptions) are strong banks, in the top percentile (based on criteria we assess) of the banking universe:
 - our Scorecards are designed to provoke and support **analysis** and **assessment** of the data, including **comparison** and **consideration**, leading to better **understanding** of prospective issuers and counterparties

- **Professional advisers are expected to undertake robust issuer / counterparty due diligence**

“Firms should carry out sufficient due diligence into the counterparty and not rely solely on credit rating agencies ...”

“We expect firms to look more broadly than just the credit rating, such as the rating, outlook, credit default swap (CDS) spreads and other market information, as well as ‘fundamentals’ on the issuer’s balance sheet.”

- **Our Scorecards provide easy access to multiple, widely recognised measures and indicators of financial strength / credit risk:**

- that can help provoke and support detailed and more objective analysis, assessment, comparison, consideration and understanding of prospective issuers and counterparties, as part of product research and due diligence

- **Importantly, however, professional advisers should note our explanation of what our Scorecards are and what they are not - including understand that our Scorecards were developed for internal purposes, with a scoring system and weightings that we feel are appropriate:**

- and we highlight that we can readily support professional advisers who may have different views and / or want to apply or explore different weightings

- **Issuer / counterparty risk is the most fundamental risk of structured products**
- **Our Issuer & Counterparty Scorecards have been developed for internal purposes, to aid more objective due diligence consideration and selection (or rejection) of prospective issuers / counterparties:**
 - based on the criteria that we assess, the banks that we monitor are (with one or two exceptions) in the top percentile of the global banking universe (of circa 3,400 banks)
 - our Scorecards are designed to help provoke and support detailed **analysis, assessment, comparison, consideration** and **understanding** of issuers / counterparties, based upon multiple factors that are widely recognised measures / indicators of financial strength / credit risk
- **We publish our Scorecards as part of our approach to proactively providing transparency with regard to the processes behind our products:**
 - and to support professional advisers in their product research and issuer / counterparty due diligence
- **We explain our methodology and the weightings we use for internal purposes - having given considerable thought to how to combine, balance and reflect our views of the relative importance of the factors:**
 - importantly, we highlight what our Scorecards are: and what they are not
- **We feel strongly that prompting professional advisors to carefully consider this essential aspect of structured products, supporting their research due diligence, is the right thing to be doing and a significant positive**

- **It should always be understood that:**
 - structured products are not suitable for everyone
 - past performance is not a reliable indicator of or guide to future performance and should not be relied upon, particularly in isolation
 - the value of investments and the income from them can go down as well as up
 - the value of structured products may be affected by the price of their underlying investments
 - capital is at risk and investors could lose some or all of their capital
- **The ‘Important risks’ section of our website highlights the key and other risks of structured products, in addition to explaining important information for Professional Advisers who wish to access the current products area of our website and who may use our structured product plans with their clients:**
 - www.tempo-sp.com/home/important-risks
- **Professional Advisers should access and read the relevant plan documents relating to any structured product plan of interest, in particular: the plan brochure; plan application pack, including, the terms and conditions of the plan; and the issuer’s securities prospectus, final terms sheet and key information document (KID), before making a recommendation to their clients**
- **Professional advisers should not invest in, or advise their clients to invest in, any investment product unless they and their clients understand them, in particular the relevant risks**

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